



## THERAPEUTICS

### Biologic

<u>Tech ID</u>	<u>Tech Title</u>	<u>Field</u>
LAB0003	Programmed Cell Death Inducing Peptides for Treatment of Various Infectious Diseases	Infectious Disease - Bacterial
LAB0009/ LAB0160	Novel $\gamma$ -RP-1 Fusion Peptides for Treating Antibiotic Resistant Infections	Infectious Disease - Bacterial
LAB0014	Multifunctional Context-Activated Protides and Methods of Use	Infectious Disease - Bacterial
LAB0183	The Alpha-Core: A Platform Technology for Antimicrobial Helices against Antibiotic Resistance	Infectious Disease - Bacterial
LAB0185	Type II Bacteriocin Search Algorithm to Identify Antimicrobial Therapeutic Agents	Infectious Disease - Bacterial
LAB0158	Diagnostic and Immunotherapeutic Ricin-Like Toxin against Mucormycosis	Infectious Disease - Fungal
LAB0161	Use of Humanin for Cardio-Protection during Chemotherapy	Oncology, Cardiology
LAB0034	Humanin for Reducing Chemotherapy-Induced Germ Cell Apoptosis	Oncology, Urology
LAB0132	SP-B Mimics for Synthetic Lung Surfactants to Treat Surfactant-Deficient Lung Tissue	Pulmonology, Neonatology
LAB0163	Aerosol Delivery of a PPAR $\gamma$ Agonist in Synthetic Lung Surfactant to Prevent Neonatal Lung Injury	Pulmonology, Neonatology
LAB0165	Aerosolized Synthetic Lung Surfactant Using SP-B Mimics for Treatment of Respiratory Distress Syndrome	Pulmonology, Neonatology
LAB0043/ LAB0138	Aerosolized Peroxisome Proliferator-Activated Receptor Gamma (PPAR $\gamma$ ) Agonists for Treating Neonatal Lung Injury	Pulmonology, Neonatology

### Small Molecule

LAB0013	MRSA Treatment with a Salicylic Acid Derivative	Infectious Disease - Bacterial
LAB0215	Novel Small Molecules Targeting Hyphae and Biofilm Formation in Candida	Infectious Disease - Fungal
LAB0173	Use of Tranilast to Treat Smooth Muscle Tumors by Altering miRNA Levels	Urology, Women's Health
LAB0229	Small Molecules for Uterine Fibroid Treatment	Urology, Women's Health

## THERAPEUTICS (CONTINUED)

### Microbiome

<u>Tech ID</u>	<u>Tech Title</u>	<u>Field</u>
LAB0177	Breast Cancer Therapeutic Based on Microbes Found in Nipple Fluid	Oncology, Women's Health
<b>Cell-Based</b>		
LAB0209	Cell Based Immunotherapy Targeting MRSA	Infectious Disease – Bacterial, Immunotherapy
LAB0216	Cell Therapy for Improved Hematopoietic Stem Cell Transplantation to Treat Osteopetrosis	Rare diseases, Pediatrics

## VACCINES

LAB0044	Killed But Metabolically Active (KBMA) Vaccine against Parasitic Infections	Infectious Disease – Parasite, Dermatology
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## MEDICAL DEVICES

### Interventional

LAB0157	Customizable Multi-Branched Stent Graft Using In-Line Mandrel to Treat Type IV Thoracoabdominal Aortic Disease	Cardiology, Surgery
LAB0140	An Integrated Fiber Optics Sensor Umbilical (ISUM) Catheter for Continuous Blood Gas Monitoring of Neonates in Critical Care	Emergency Medicine/Critical Care, Neonatology
LAB0109	Pediatric Valve-Assisted Limited Ventilation (pediVALVe) Device for Controlled Ventilation in Emergency Situations	Emergency Medicine/Critical Care, Pulmonology

### Diagnostic

LAB0035	Blue Box-Code Blue Recorder	Emergency Medicine/Critical Care
LAB0038/ LAB0031	Foot Pulse Oximeter for Screening Congenital Heart Disease Before Newborn Discharge	Cardiology, Neonatology
LAB0070	Sudden Infant Death Syndrome (SIDS) Prevention Monitor	Cardiology, Neonatology
LAB0090	Conjunctival Monitor for Continuous Measurement of Blood Gases during Medical Procedures	Cardiology, Neonatology
LAB0108	Asthmagram—Wearable Patch for Accurate Asthma Diagnosis in Children	Respiratory, Pediatrics
LAB0182	Needle Guidance Device for CT-Guided Biopsies	Oncology, Surgery

## BIOMARKERS

### Diagnostic

<u>Tech ID</u>	<u>Tech Title</u>	<u>Field</u>
LAB0212	Dyslipidemia induced stem cell damage	Regenerative Medicine

### Prognostic

LAB0206	Anti-MRSA Antibiotic Susceptibility Test	Infectious Disease - Bacterial
LAB0029	Low Density Lipoprotein (LDL) Based Prognostic for Maintenance of Hemodialysis Patients	Nephrology

## SOFTWARE/ALGORITHM

LAB0203	Computational Analysis of Human Electroencephalography (EEG) for Alzheimer's Disease Diagnosis	Neurology
LAB0057	Cardiovascular and Pulmonary Health Assessment Tool Using Exercise Tests	Rehabilitation Medicine
LAB0225	Lemonade Paradigm - A Psychoanalytic Performance Validity Test	Neuropsychology
LAB0068	Personal Identification Method for Skin Marking Captured in Photographs or Video	Dermatology, Forensic Science
LAB0143	Using Vein Patterns Captured in a Colour Photograph for Personal Identification	Dermatology, Forensic Science

## RESEARCH TOOL - PROGNOSTIC

LAB0065	A Stable Isotope Labeling Method for Determination of Protein Synthesis and Protein Expression in the Study of Biological Effects of Drugs and Other Biological Agents	Oncology
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